Refine Search

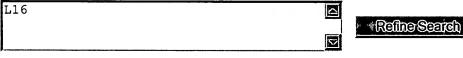
Search Results -

Terms	Documents
dimethylamino same phenyl same propion\$7 same cyclohexene same carboxyl\$6	27

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:









Search History

DATE: Wednesday, June 21, 2006 Printable Copy Create Case

Set Name side by side	Query	<u>Hit</u> Count	Set Name result set			
DB=U	SPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=ADJ					
<u>L16</u>	dimethylamino same phenyl same propion\$7 same cyclohexene same carboxyl\$6	27	<u>L16</u>			
<u>L15</u>	L14 and 560/\$	0	<u>L15</u>			
<u>L14</u>	dimethylamino same phenyl same propion\$7 same cyclohexene	60	<u>L14</u>			
<u>L13</u>	dimethylamino adj phenyl adj propion\$7	1	<u>L13</u>			
<u>L12</u>	dimethylamino same phenyl same propion\$7	2846	<u>L12</u>			
<u>L11</u>	L10 and carboxylic acid	484	<u>L11</u>			
<u>L10</u>	L9 and 560/\$	581	<u>L10</u>			
<u>L9</u>	L8 and ethyl ester	5174	<u>L9</u>			
<u>L8</u>	L7 and phenyl and propion\$7	22340	<u>L8</u>			
<u>L7</u>	dimethylamino	67377	<u>L7</u>			
DB=USPT; PLUR=YES; OP=ADJ						
<u>L6</u>	L5 and carboxylic acid	2	<u>L6</u>			

<u>L5</u>	3679732 or 3649628	6	<u>L5</u>	
<u>L4</u>	3679732.pn. or 3649628.pn.	2	<u>L4</u>	
DB=USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=ADJ				
<u>L3</u>	gb-1216152-\$.did.	1	<u>L3</u>	
<u>L2</u>	gb-1120186-\$.did.	0	<u>L2</u>	
<u>L1</u>	gb-1226318-\$.did.	1	<u>L1</u>	

END OF SEARCH HISTORY

Hit List

First Hit Clear Concrete Collection Print Fwd Refs Blawd Refs Concrete OACS

Search Results - Record(s) 1 through 10 of 27 returned.

☐ 1. Document ID: US 7053114 B2

L16: Entry 1 of 27

File: USPT

May 30, 2006

US-PAT-NO: 7053114

DOCUMENT-IDENTIFIER: US 7053114 B2

TITLE: Prodrugs of a 3-(pyrrol-2-ylmethylidene)-2-indolinone derivatives

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040186161 A1

September 23, 2004

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

☐ 2. Document ID: US 7002020 B1

L16: Entry 2 of 27

File: USPT

Feb 21, 2006

US-PAT-NO: 7002020

DOCUMENT-IDENTIFIER: US 7002020 B1

TITLE: Oxazolidinone combinatorial libraries, compositions and methods of

preparation

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

☐ 3. Document ID: US 6797725 B2

L16: Entry 3 of 27

File: USPT

Sep 28, 2004

US-PAT-NO: 6797725

DOCUMENT-IDENTIFIER: US 6797725 B2

TITLE: Prodrugs of a 3-(pyrrol-2-ylmethylidene)-2-indolinone derivatives

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw De

☐ 4. Document ID: US 6562844 B2

L16: Entry 4 of 27

File: USPT

May 13, 2003

US-PAT-NO: 6562844

DOCUMENT-IDENTIFIER: US 6562844 B2

TITLE: Oxazolidinone combinatorial libraries, compositions and methods of

preparation

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 5. Document ID: US 6531470 B1

L16: Entry 5 of 27

File: USPT

Mar 11, 2003

US-PAT-NO: 6531470

DOCUMENT-IDENTIFIER: US 6531470 B1

TITLE: Oxazolidinone combinatorial libraries, compositions and methods of

preparation

Full Title Citation Front Review Classification Date Reference Sequences Attackments Claims KMC Draw De

☐ 6. Document ID: US 5618831 A

L16: Entry 6 of 27

File: USPT

Apr 8, 1997

US-PAT-NO: 5618831

DOCUMENT-IDENTIFIER: US 5618831 A

** See image for Certificate of Correction **

TITLE: Composition and method for treating cancer

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 7. Document ID: US 5232484 A

L16: Entry 7 of 27

File: USPT

Aug 3, 1993

US-PAT-NO: 5232484

DOCUMENT-IDENTIFIER: US 5232484 A

TITLE: Degradation of pesticides by ferric reagents and peroxide in the presence of

light

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

□ 8. Document ID: US 5151357 A

L16: Entry 8 of 27

File: USPT

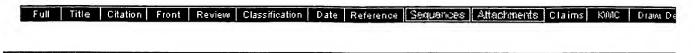
Sep 29, 1992

Record List Display Page 3 of 3

US-PAT-NO: 5151357

DOCUMENT-IDENTIFIER: US 5151357 A

TITLE: Silver halide photographic material



☐ 9. Document ID: US 4554155 A

L16: Entry 9 of 27

File: USPT

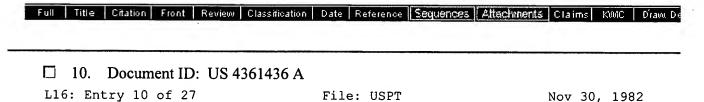
Nov 19, 1985

US-PAT-NO: 4554155

DOCUMENT-IDENTIFIER: US 4554155 A

** See image for <u>Certificate of Correction</u> **

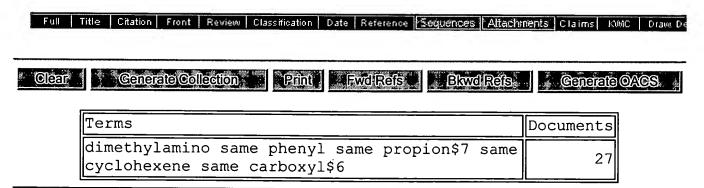
TITLE: Controlled release compositions



US-PAT-NO: 4361436

DOCUMENT-IDENTIFIER: US 4361436 A

TITLE: Composition for plant growth regulation



Display Format: - Change Format

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Hit List

First Hit Glear Concrete Collection Public Fwd Refs Bland Refs
Cenerate OACS

Search Results - Record(s) 11 through 20 of 27 returned.

☐ 11. Document ID: US 4328026 A

L16: Entry 11 of 27

File: USPT

May 4, 1982

US-PAT-NO: 4328026

DOCUMENT-IDENTIFIER: US 4328026 A

TITLE: Phosphoranyl derivatives containing nitrogen

Full Title Citation Front Review Classification Date Reference Sequences Altachments Claims KWIC Draw De

☐ 12. Document ID: US 4292142 A

L16: Entry 12 of 27

File: USPT

Sep 29, 1981

US-PAT-NO: 4292142

DOCUMENT-IDENTIFIER: US 4292142 A

TITLE: Separation of ethylbenzene from para- and meta-xylenes by extractive

distillation

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 13. Document ID: US 4146454 A

L16: Entry 13 of 27

File: USPT

Mar 27, 1979

US-PAT-NO: 4146454

DOCUMENT-IDENTIFIER: US 4146454 A

TITLE: Electromolecular propulsion in diverse semiconductive media

Full Title Citation Front Review Classification Date Reference Seguences Altachments Claims KMC Draw De

☐ 14. Document ID: US 3825537 A

L16: Entry 14 of 27

File: USOC

Jul 23, 1974

US-PAT-NO: 3825537

DOCUMENT-IDENTIFIER: US 3825537 A

Record List Display Page 2 of 4

TITLE: 1-THIAZOLIN-2-YL (OR THIAZIN-2-YL) -2-AMINOBENZIMIDAZOLES AND DERIVATIVES THEREOF

DATE-ISSUED: July 23, 1974

INVENTOR-NAME: NARAYANAN V; HAUGWITZ R

US-CL-CURRENT: <u>544/55</u>, <u>548/181</u>, <u>548/307.4</u>, <u>558/17</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 15. Document ID: US 3819693 A

L16: Entry 15 of 27

File: USOC

Jun 25, 1974

US-PAT-NO: 3819693

DOCUMENT-IDENTIFIER: US 3819693 A

TITLE: 9-HYDROXYFLUORENE-2-ALKANOIC ACIDS AND ESTERS THEREOF

DATE-ISSUED: June 25, 1974

INVENTOR-NAME: LEVINE S; PRINCIPE P

US-CL-CURRENT: $\underline{562/466}$, $\underline{435/127}$, $\underline{435/911}$, $\underline{435/913}$, $\underline{435/917}$, $\underline{544/107}$, $\underline{554/104}$, $\underline{554/105}$, $\underline{554/108}$, $\underline{554/111}$, $\underline{554/116}$, $\underline{554/218}$, $\underline{554/220}$, $\underline{558/406}$, $\underline{558/410}$, $\underline{560/101}$, $\underline{560/107}$, $\underline{560/134}$, $\underline{560/21}$, $\underline{560/34}$, $\underline{560/35}$, $\underline{560/45}$, $\underline{560/51}$, $\underline{560/53}$, $\underline{560/56}$, $\underline{560/8}$, $\underline{562/434}$, $\underline{562/439}$, $\underline{562/440}$, $\underline{562/461}$, $\underline{562/492}$

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMC Draw De

☐ 16. Document ID: US 3816444 A

L16: Entry 16 of 27

File: USOC

Jun 11, 1974

US-PAT-NO: 3816444

DOCUMENT-IDENTIFIER: US 3816444 A

TITLE: THIAZOLINYL DERIVATIVES OF OMIKRON-PHENYLENEDIAMINES

DATE-ISSUED: June 11, 1974

INVENTOR-NAME: NARAYANAN V; HAUGWITZ R

US-CL-CURRENT: <u>548/197</u>, <u>544/53</u>, <u>548/193</u>, <u>548/194</u>, <u>548/198</u>, <u>558/17</u>, <u>564/27</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

☐ 17. Document ID: US 3792080 A

L16: Entry 17 of 27

File: USOC

Feb 12, 1974

Record List Display

Page 3 of 4

US-PAT-NO: 3792080

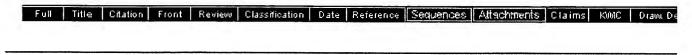
DOCUMENT-IDENTIFIER: US 3792080 A

TITLE: PROCESS FOR SUBSTITUTED CYCLOHEXENES AND ITS PRODUCTS

DATE-ISSUED: February 12, 1974

INVENTOR-NAME: SATZINGER G; HECHTFISCHER G

US-CL-CURRENT: <u>560/48</u>, <u>544/165</u>



☐ 18. Document ID: US 3759903 A

L16: Entry 18 of 27

File: USOC

Sep 18, 1973

Aug 28, 1973

US-PAT-NO: 3759903

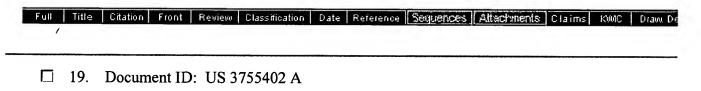
DOCUMENT-IDENTIFIER: US 3759903 A

TITLE: THIAZOLINYL AND THIAZINYL DERIVATIVES OF INDAZOLES

DATE-ISSUED: September 18, 1973

INVENTOR-NAME: NARAYANAN V; HAUGWITZ R

US-CL-CURRENT: 544/55, 548/181



File: USOC

US-PAT-NO: 3755402

L16: Entry 19 of 27

DOCUMENT-IDENTIFIER: US 3755402 A

TITLE: ESTERS OF CYANIC ACID AND METHOD OF PREPARATION

DATE-ISSUED: August 28, 1973

INVENTOR-NAME: GRIGAT E; PUTTER R

US-CL-CURRENT: <u>560/100</u>, <u>534/735</u>, <u>534/859</u>, <u>544/163</u>, <u>546/153</u>, <u>546/177</u>, <u>546/291</u>, <u>548/304.4</u>, <u>548/361.1</u>, <u>548/370.1</u>, <u>549/33</u>, <u>552/208</u>, <u>552/265</u>, <u>552/267</u>, <u>560/108</u>, <u>560/109</u>, <u>560/139</u>, <u>560/142</u>, <u>560/301</u>, <u>562/427</u>, <u>562/429</u>, <u>562/430</u>, <u>562/434</u>, <u>562/434</u>, <u>562/452</u>, <u>562/465</u>, <u>562/466</u>, <u>562/490</u>, <u>562/493</u>, <u>562/496</u>, <u>568/706</u>, <u>568/716</u>, <u>568/721</u>, <u>568/723</u>, <u>568/743</u>, <u>568/744</u>, <u>568/763</u>, <u>568/764</u>, <u>568/775</u>, <u>568/780</u>, <u>568/781</u>, <u>568/784</u>, <u>568/844</u> ☐ 20. Document ID: US 3749717 A

L16: Entry 20 of 27

File: USOC

Jul 31, 1973

US-PAT-NO: 3749717

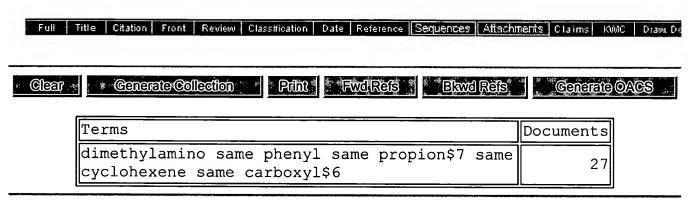
DOCUMENT-IDENTIFIER: US 3749717 A

TITLE: THIAZOLINYL AND THIAZINYL DERIVATIVES OF BENZIMIDAZOLES

DATE-ISSUED: July 31, 1973

INVENTOR-NAME: NARAYANAN V; HAUGWITZ R; MAURER B

US-CL-CURRENT: <u>544/55</u>, <u>548/181</u>



Display Format: - Change Format -

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Hit List

First Hit Clear Concrete Collection Print Fwd Refs Bland Refs

Cenerate OACS

Search Results - Record(s) 21 through 27 of 27 returned.

☐ 21. Document ID: US 3740396 A

L16: Entry 21 of 27

File: USOC

Jun 19, 1973

US-PAT-NO: 3740396

DOCUMENT-IDENTIFIER: US 3740396 A

TITLE: THIAZOLINYL AND THIAZINYL DERIVATIVES OF BENZOTRIAZOLES

DATE-ISSUED: June 19, 1973

INVENTOR-NAME: HAUGWITZ R; VENKATACHALA NARAVANAN

US-CL-CURRENT: <u>544/55</u>, <u>548/181</u>, <u>548/257</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 22. Document ID: US 3720686 A

L16: Entry 22 of 27

File: USOC

Mar 13, 1973

US-PAT-NO: 3720686

DOCUMENT-IDENTIFIER: US 3720686 A

TITLE: MERCAPTOBENZIMIDAZOLE DERIVATIVES

DATE-ISSUED: March 13, 1973

INVENTOR-NAME: NARAYANAN V; HAUGWITZ R

US-CL-CURRENT: $\underline{548}/\underline{307.1}$, $\underline{558}/\underline{13}$, $\underline{558}/\underline{414}$, $\underline{564}/\underline{155}$, $\underline{564}/\underline{214}$, $\underline{564}/\underline{218}$, $\underline{564}/\underline{305}$,

<u>564/315</u>, <u>564/440</u>, <u>564/441</u>, <u>564/443</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 23. Document ID: US 3660563 A

L16: Entry 23 of 27

File: USOC

May 2, 1972

US-PAT-NO: 3660563

DOCUMENT-IDENTIFIER: US 3660563 A

TITLE: WATER SOLUBLE ENTRAPPING OF A DRUG

DATE-ISSUED: May 2, 1972

INVENTOR-NAME: SHEPHERD THOMAS H; GOULD FRANCIS E

US-CL-CURRENT: <u>514/772.1</u>, <u>514/772.5</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

☐ 24. Document ID: US 3564100 A

L16: Entry 24 of 27

File: USOC

Feb 16, 1971

US-PAT-NO: 3564100

DOCUMENT-IDENTIFIER: US 3564100 A

TITLE: BASICALLY SUBSTITUTED CYCLOALKENE COMPOUNDS AS ANTITUSSIVE AGENTS

DATE-ISSUED: February 16, 1971

INVENTOR-NAME: FRANKUS ERNST; FLICK KURT

US-CL-CURRENT: 514/650

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 25. Document ID: US 3470249 A

L16: Entry 25 of 27

File: USOC

Sep 30, 1969

US-PAT-NO: 3470249

DOCUMENT-IDENTIFIER: US 3470249 A

TITLE: 1 - (M - HYDROXYPHENYL) - 2 - DIALKYLAMINO METHYL - CYCLOALKENES AND THE

SALTS THEREOF AND THE PROCESS OF PERPARING THE SAME

DATE-ISSUED: September 30, 1969

INVENTOR-NAME: FRANKUS ERNST; FLICK KURT

US-CL-CURRENT: <u>564/446</u>, <u>514/849</u>, <u>546/322</u>, <u>546/326</u>, <u>564/339</u>

Full Title Citation Front Review Classification Date Reference Seguences Attachments Claims KMC Draw De

☐ 26. Document ID: US 3388079 A

L16: Entry 26 of 27

File: USOC

Jun 11, 1968

US-PAT-NO: 3388079

Record List Display Page 3 of 3

DOCUMENT-IDENTIFIER: US 3388079 A

TITLE: High molecular weight polyethers containing silane groupings

DATE-ISSUED: June 11, 1968

INVENTOR-NAME: VANDENBERG EDWIN J

US-CL-CURRENT: 528/27; 528/16



☐ 27. Document ID: US 3219591 A

L16: Entry 27 of 27

File: USOC

Nov 23, 1965

US-PAT-NO: 3219591

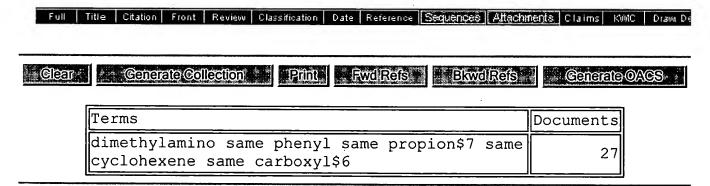
DOCUMENT-IDENTIFIER: US 3219591 A

TITLE: Organoaluminum oxide catalyst composition

DATE-ISSUED: November 23, 1965

INVENTOR-NAME: VANDENBERG EDWIN J

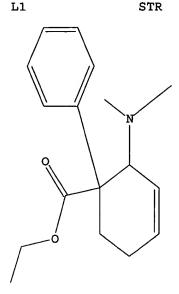
US-CL-CURRENT: $\underline{502}/\underline{152}$; $\underline{556}/\underline{175}$, $\underline{556}/\underline{176}$, $\underline{556}/\underline{177}$, $\underline{556}/\underline{179}$



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=> d L1 HAS NO ANSWERS



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 17:16:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 38025 TO ITERATE

100.0% PROCESSED 38025 ITERATIONS SEARCH TIME: 00.00.01

98 ANSWERS

L2 98 SEA SSS FUL L1

L3 273 L2

=> s 13 and ethyl and ester 447482 ETHYL 579117 ESTER

L4 11 L3 AND ETHYL AND ESTER

=> s 14 and py<1999 19136673 PY<1999

L5 3 L4 AND PY<1999

=> d 1-3 ibib abs hitstr

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1977:593563 CAPLUS

DOCUMENT NUMBER: 87:193563

TITLE:

Metabolism of trans-D, L-2-(dimethylamino)-1-phenyl-3-

cyclohexene-1-carboxylic acid ethyl

ester hydrochloride (tilidine-HCl). Part 3.

Renal metabolite elimination in rats, dog, and man

Vollmer, K. O.; Von Hodenberg, A.

CORPORATE SOURCE:

Forschungsinst., Goedecke A.-G., Freiburg/Br., Fed.

Rep. Ger.

SOURCE:

AUTHOR (S):

Arzneimittel-Forschung (1977), 27(9),

1706-13

CODEN: ARZNAD; ISSN: 0004-4172

DOCUMENT TYPE:

Journal

LANGUAGE:

German

Ι

GI

AB Renal elimination of tilidine-HCl (I) [27107-79-5] was similar in the rat, dog, and man. After oral administration of I-14C 50-60, 80, and >90% of the applied dose was eliminated in the urine in the resp. species. The half/life of renal 14C elimination was 8 h in the rat and man, and the elimination was faster in the dog. In all species, about 17% of the urinary radioactivity was in nonpolar metabolites. About 2-3% each was in nortilidine [38677-94-0] and bisnortilidine [53948-51-9], and <0.2% in unchanged I. Most of the polar metabolites were glucuronides. Five new metabolites, oxygenated derivs. of nortilidine and bisnortilidine, were isolated from rat urine.

IT 27107-79-5

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
 (metabolism of)

RN 27107-79-5 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, hydrochloride, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

HCl

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1973:3822 CAPLUS

DOCUMENT NUMBER: 7

78:3822

TITLE:

Ethyl 4-amino-1-phenyl-2-cyclohexene-1-

carboxylates

INVENTOR(S):

Satzinger, Gerhard; Herrmann, Manfred

PATENT ASSIGNEE(S):

Goedecke A.-G.

SOURCE:

Ger. Offen., 42 pp. Division of Ger. Offen. 2,107,871.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.		KIND DA'	DATE	APPLICATION NO.	DATE	
	DE 2166019	Α	19720831	DE 1971-2166019	19710218 <	
	DE 2166019	B2	19750612			
	DE 2166019	C3	19760212			

PRIORITY APPLN. INFO.:

DE 1971-2166019 19710218

GI For diagram(s), see printed CA Issue.

AB Twenty-eight Et cyclohexenecarboxylates [I; R = H, Me, Et, Bu; R1 = H, Me, Et, Bu, allyl, phenylalkyl, etc.; NRR1 = morpholino, substituted piperazinyl, substituted piperidino] and (or) their salts useful as analgesics, antipyretics, sedatives, etc., were prepared from the cyclohexene (II; R4 = OAc). II (R4 = OAc) was hydrolyzed and then halogenated to give II (R4 = halo), which was treated with R1NHR to give I. II (R4 = OAc) was prepared by treating Et atropate with MeCH:CCHO-Ac2O.

IT 17243-69-5P 24357-97-9P

RN 17243-69-5 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester (8CI, 9CI) (CA INDEX NAME)

RN 24357-97-9 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, hydrochloride (8CI, 9CI) (CA INDEX NAME)

HCl

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1970:78530 CAPLUS

DOCUMENT NUMBER: 72:78530

TITLE: Ethyl (dimethylamino) (phenyl) (alkyl) -3-

cyclohexene-1-carboxylates

INVENTOR(S): Satzinger, Gerhard; Herrmann, Wolfgang; Novack, R.

Michael

PATENT ASSIGNEE(S):

Goedecke A.-G.

SOURCE:

Ger. Offen., 27 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 1923619	Α	19691218	DE 1969-1923619		19690508 <
US 3649628	A	19720314	US 1968-777202		19681119 <
ES 366913	A 1	19710616	ES 1969~366913		19690507 <
PRIORITY APPLN. INFO.:			US 1968-727689	Α	19680508
			US 1968-777202	Α	19681119
			US 1968-777197	Α	19681119

GI For diagram(s), see printed CA Issue.

Title compds. were prepared Thus, under anhydrous conditions, 21.2 moles Me2NH AB was condensed at 5° over 2.5 hr into a mixture of 42.3 moles crotonaldehyde, 2120 ml benzene, 10.6 g phenanthrenequinone, and 21.15 moles K2CO3, the mixture stirred 15 min. and purged with N, 18.95 moles Et atropate added, the mixture heated to 75°, the external heat removed, and the temperature allowed to increase to 90° before external cooling was applied. After the exothermic reaction had ceased, the mixture was held 2 hr at 90-5°, then worked up to give 4135 g 3-dimethylamino-4phenyl-4-carbethoxycyclohexene (I) (60% cis, 40% trans) containing <0.1% Et 2-phenyl-3-dimethylaminopropionate (II). This was added to 17.7 1. N HCl at 65°, the whole heated 1.5 hr at 70°, cooled to 35°, washed with petroleum ether, with activated C and diluted with water, treated at 25-30° with a ZnCl2 solution containing 2.06 kg ZnCl2, 10.4 l. H2O, and 108 ml. concentrated HCl, the mixture held at 0-5°, 3.4 kg Zn complex cis-I filtered off, and the filtrate treated with aqueous NH4OH at 25° to give I containing 80% trans isomer and 20% cis isomer, together with 0.25% II. This product was combined with EtOAc and anhydrous HCl in EtOAc, the pH adjusted to 3.5-4, and the mixture heated to boiling and filtered hot to give 1119 g trans-I.HCl, m. 160-2°, containing 1-2% cis isomer and 0.25-0.5% II after washing. Stirring with THF at 25° gave 1011 g trans-I.HCl, m. 159-63°, containing 0.25-0.75% cis isomer and <0.25% II. Similar results were obtained by using EtOAc at 75° instead of THF at 25°. Similarly prepared were 3-dimethylamino-4-phenyl-4-carbethoxy-6-ethylcyclohexene-HCl (III.HCl) (cis isomer m. 157-9°, trans isomer m. 205.5-207°), and 2-methyl-3-dimethylamino-4-phenyl-4-carb-ethoxycyclohexene-HCl (cis isomer m. 185-7°, trans isomer m. 184.5-6.5°). The compds. are useful as analgesics.

IT 20380-56-7P 20380-57-8P 25616-41-5P 25616-43-7P 25616-44-8P 25616-45-9P

51931-66-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 20380-56-7 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 20380-57-8 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, hydrochloride, (1R-trans)- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

HCl

RN 25616-41-5 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-5-ethyl-1-phenyl-, ethyl ester, stereoisomer (8CI) (CA INDEX NAME)

RN 25616-43-7 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-5-ethyl-1-phenyl-, ethyl ester, hydrochloride, stereoisomer (8CI) (CA INDEX NAME)

● HCl

RN 25616-44-8 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-3-methyl-1-phenyl-, ethyl ester, hydrochloride, stereoisomer (8CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 25616-45-9 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-3-methyl-1-phenyl-, ethyl ester, hydrochloride, stereoisomer (8CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 51931-66-9 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ethyl 2-dimethylamino-1-phenyl-3-cyclohexene-1-carboxylate